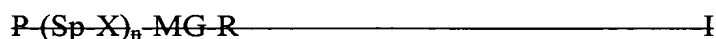


This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) ~~An anisotropic polymer layer exhibiting a tilted structure with an optical axis having a tilt angle  $\theta$  relative to the plane of the layer, obtained by polymerizing a polymerizable mesogenic material comprising at least one compound of the formula:~~



wherein

~~P is a polymerizable group,~~

~~Sp is a spacer group having 1 to 20 C atoms,~~

~~X is a group of O, S, CO, COO, OCO, OCOO or a single bond,~~

~~n is 0 or 1,~~

~~MG is a mesogenic or mesogenicity supporting group:  
and~~

~~R is an alkyl radical with up to 25 C atoms optionally unsubstituted, mono or polysubstituted by halogen or CN, optionally one or more non-adjacent CH<sub>2</sub> groups are replaced, independently, by O, S, NH, N(CH<sub>3</sub>), CO, -COO, OCO, OCO-O, S-CO, CO-S or C≡C where oxygen atoms are not linked directly to one another, or R is halogen, cyano or, independently,~~

~~P-(Sp-X)<sub>n</sub> as defined in formula I;~~

~~wherein the polymerizable mesogenic material is a mixture of:~~

A polymerizable mixture comprising:

a1) 10 to 99% by weight of at least one mesogen compound according to formula

I having one polymerizable functional group,

a2) 0 to 70% by weight of at least one mesogen compound according to formula I having two or more polymerizable functional groups, and

b) 0.01 to 5% by weight of an initiator;

wherein the at least one compound of formula I is:



wherein

P is a polymerizable group,

Sp is a spacer group having 1 to 20 C atoms,

X is a group of -O-, -S-, -CO-, -COO-, -OCO-, -OCOO- or a single bond,

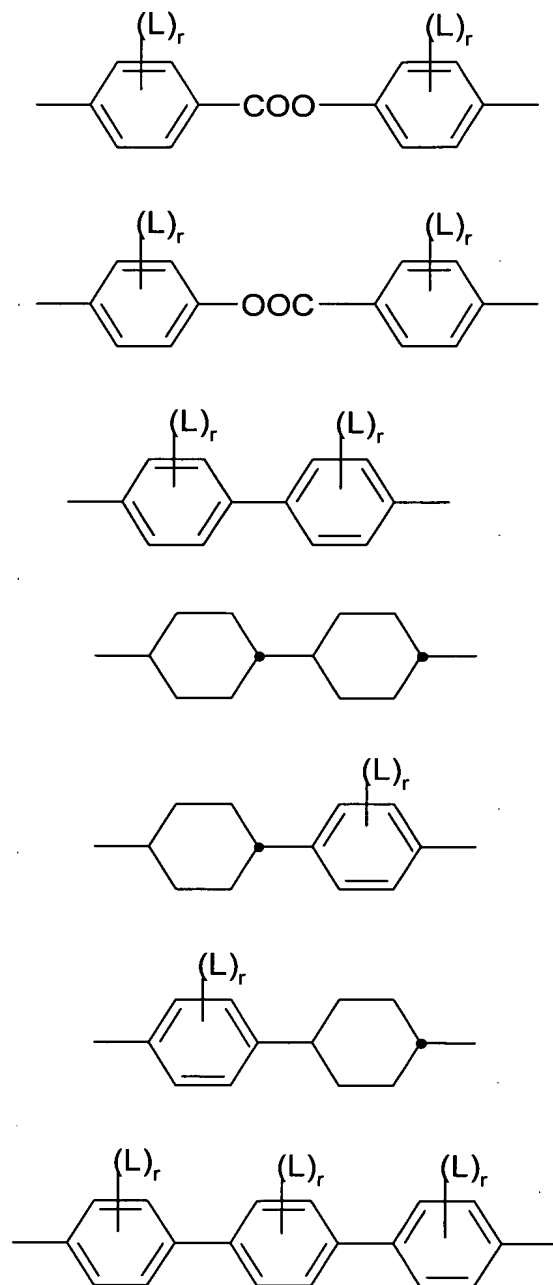
n is 0 or 1,

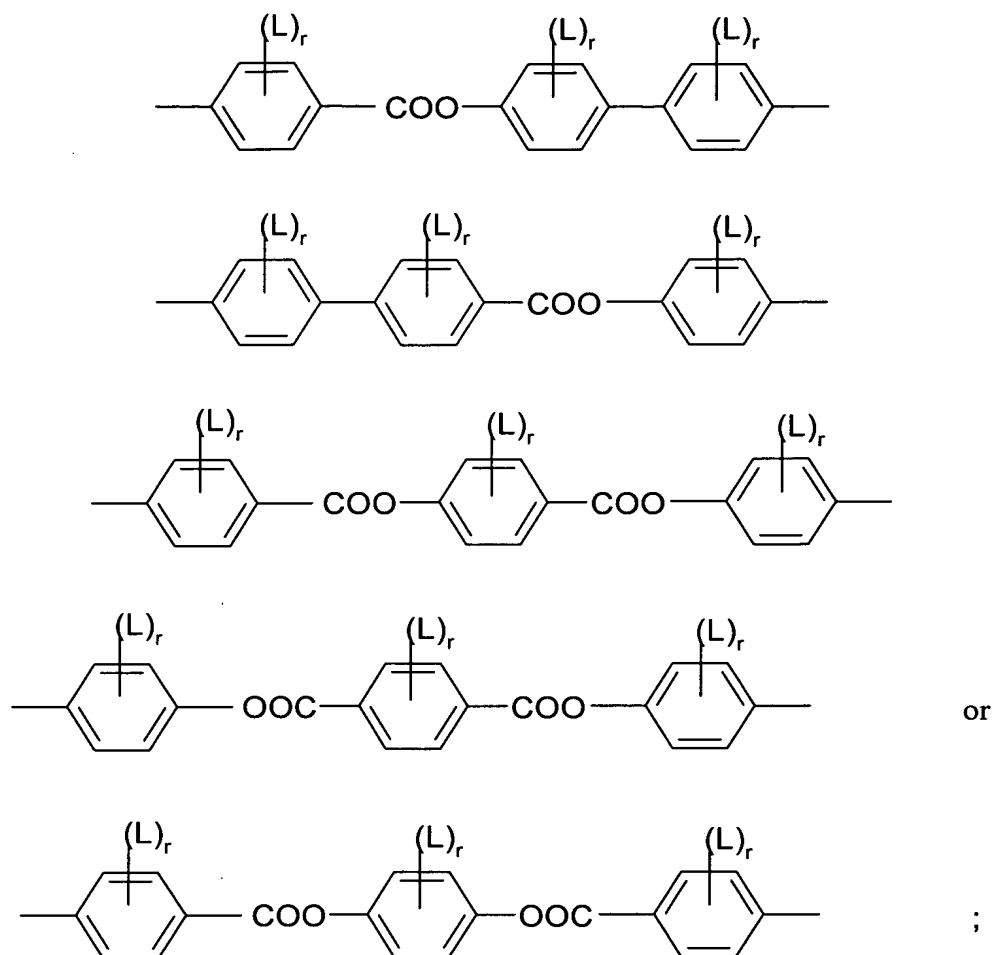
MG is a mesogenic or mesogenicity supporting group:  
and

R is an alkyl radical with up to 25 C atoms optionally unsubstituted, mono- or polysubstituted by halogen or CN, optionally one or more non-adjacent CH<sub>2</sub> groups are replaced, independently, by -O-, -S-, -NH-, -N(CH<sub>3</sub>)-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S- or -C≡C- where oxygen atoms are not linked directly to one another, or R is halogen, cyano or, independently, P-(Sp-X)<sub>n</sub> as defined in formula I.

2. (Currently Amended) A mixture ~~polymer layer~~ according to claim 1, wherein the mixture ~~polymerizable material~~ comprises at least one compound of formula I having one polymerizable group and at least one compound of formula I having two polymerizable groups.

3. (Currently Amended) A mixture ~~polymer layer~~ according to claim 1, wherein the mixture ~~polymerizable material~~ comprises at least one compound of formula I wherein the mesogenic group MG is of the formulae:

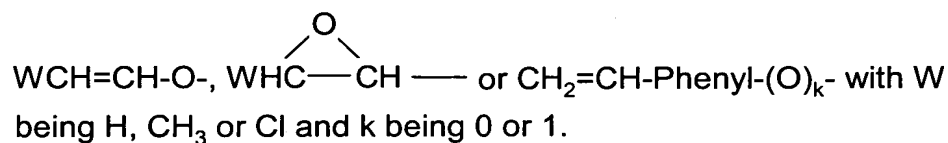




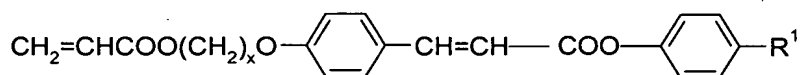
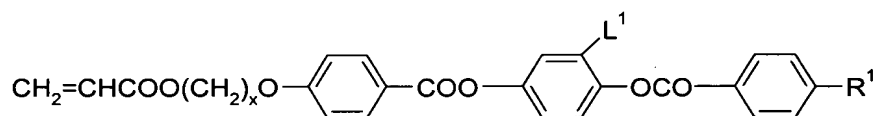
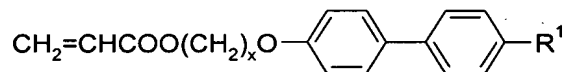
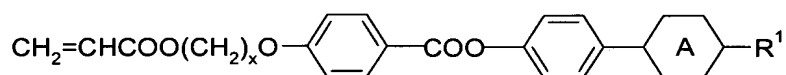
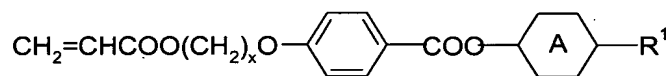
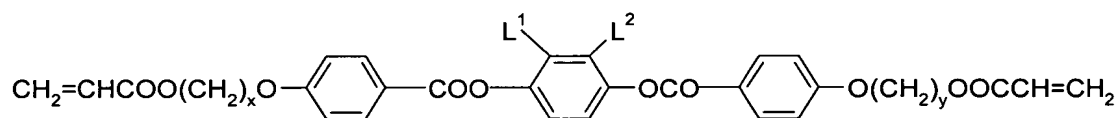
where L is: F, Cl, CN, or a fluorinated alkyl, alkoxy or alkanoyl group with 1 to 4 C atoms, and

r is 0, 1 or 2.

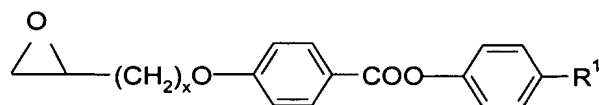
4. **(Currently Amended)** A mixture polymer layer according to claim 1, wherein the mixture polymerizable material comprises at least one compound of formula I where P is:



5. (Currently Amended) A mixture polymer layer according to claim 1, wherein the mixture polymerizable mesogenic material comprises at least one compound of the formulae:



or



;

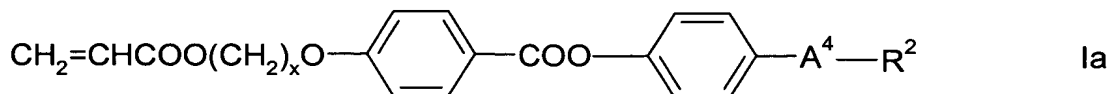
wherein x and y are, independently, 1 to 12, A is a 1,4-phenylene or 1,4-cyclohexylene group, R<sup>1</sup> is halogen, cyano or an optionally halogenated alkyl or alkoxy group with 1 to 12 C atoms, and L<sup>1</sup> and L<sup>2</sup> are, independently, H, F, Cl, CN, or a halogenated alkyl, alkoxy, or alkanoyl group with 1 to 7 C atoms.

6. (Currently Amended) A ~~polymer-layer~~ mixture according to claim 1, wherein the ~~polymerizable material~~ mixture comprises 1 to 80% by weight of at least one dielectrically positive monoreactive mesogenic compound.

7. (Currently Amended) A ~~polymer-layer~~ mixture according to claim 6, wherein said dielectrically positive monoreactive mesogenic compound has a dielectric anisotropy  $\Delta\epsilon > 1.5$ .

8. (Currently Amended) A ~~polymer-layer~~ mixture according to claim 6, wherein said dielectrically positive monoreactive mesogenic compound has a polar terminal group of CN, F, Cl, OCF<sub>3</sub>, OCF<sub>2</sub>H, OC<sub>2</sub>F<sub>5</sub>, CF<sub>3</sub>, OCN or SCN.

9. (Currently Amended) A ~~polymer-layer~~ mixture according to claim 1, wherein the mixture ~~polymerizable material~~ comprises at least one compound of the formula:



wherein x is 1 to 12, R<sup>2</sup> is C<sub>1-12</sub> alkyl or alkoxy, and  
A<sup>4</sup> is 1,4-phenylene, trans-1, 4-cyclohexylene or a single bond;

at least one diereactive compound of formula I; and at least one dielectrically positive monoreactive compound of formula I.

**10. (Currently Amended)** A ~~polymer-layer~~ mixture according to claim 1, wherein the ~~polymerizable mesogenic material is a mixture~~ comprises of:

- a1A) 10 to 65%, by weight of at least one compound of formula I having one polymerizable group, wherein R is an alkyl or alkoxy group with 1 to 12 C atoms;
- a1B) 5 to 40% by weight of at least one compound of formula I having one polymerizable group, wherein R is CN, F, Cl or a halogenated alkyl or alkoxy group with 1 to 12 C atoms;
- a2) 2 to 90% by weight of at least one compound of formula I having two polymerizable groups, wherein R has one of the meanings of P-(Sp-X)<sub>n</sub>; and
- b) 0.01 to 5 % by weight of an initiator.

**11. (Currently Amended)** A ~~polymer-layer~~ mixture according to claim 1, wherein the mesogenic or mesogenicity supporting group is a compound of formula:



wherein

A<sup>1</sup>, A<sup>2</sup> and A<sup>3</sup> are, independently, 1,4-phenylene where one or more CH groups optionally replaced by N, 1,4-cyclohexylene, optionally, one or two non-adjacent CH<sub>2</sub> groups

are replaced by O and/or S, 1,4-cyclohexenylene or naphthalene-2, 6-diyl, optionally these groups are unsubstituted, mono- or polysubstituted with a halogen, a cyano, or a nitro group, or an alkyl, alkoxy or alkanoyl group having 1 to 7 C atoms, wherein one or more H atoms may be substituted by F or Cl,

$Z^1$  and  $Z^2$  are each, independently, -COO-, -OCO-, -CH<sub>2</sub>CH<sub>2</sub>-, -OCH<sub>2</sub>-, -CH<sub>2</sub>O-, -CH=CH-, -C≡C-, -CH=CH-COO-, -OCO-CH=CH- or a single bond and

m is 0, 1 or 2.

**12. (Currently Amended)** A mixture ~~polymer layer~~ according to claim 1, wherein n=1.

**13. (Currently Amended)** A mixture ~~polymer layer~~ according to claim 1, wherein the mixture ~~polymerizable mesogenic material~~ comprises at least 95% by weight of polymerizable compounds.

**14.-17. (Canceled)**

**18. (New)** A mixture according to claim 1, further comprising an organic solvent.

**19. (New)** A mixture according to claim 18, wherein the organic solvent is toluene.